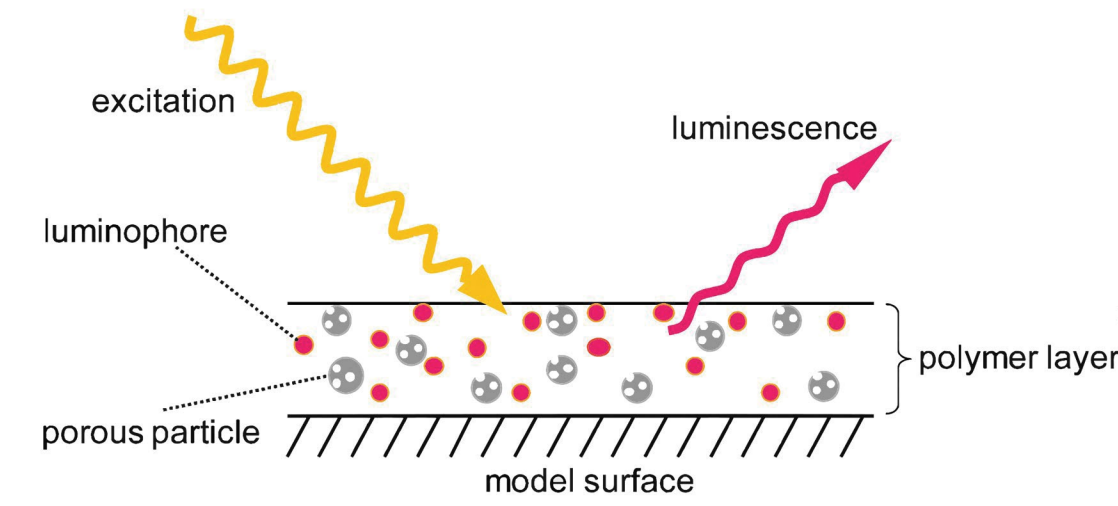
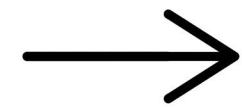
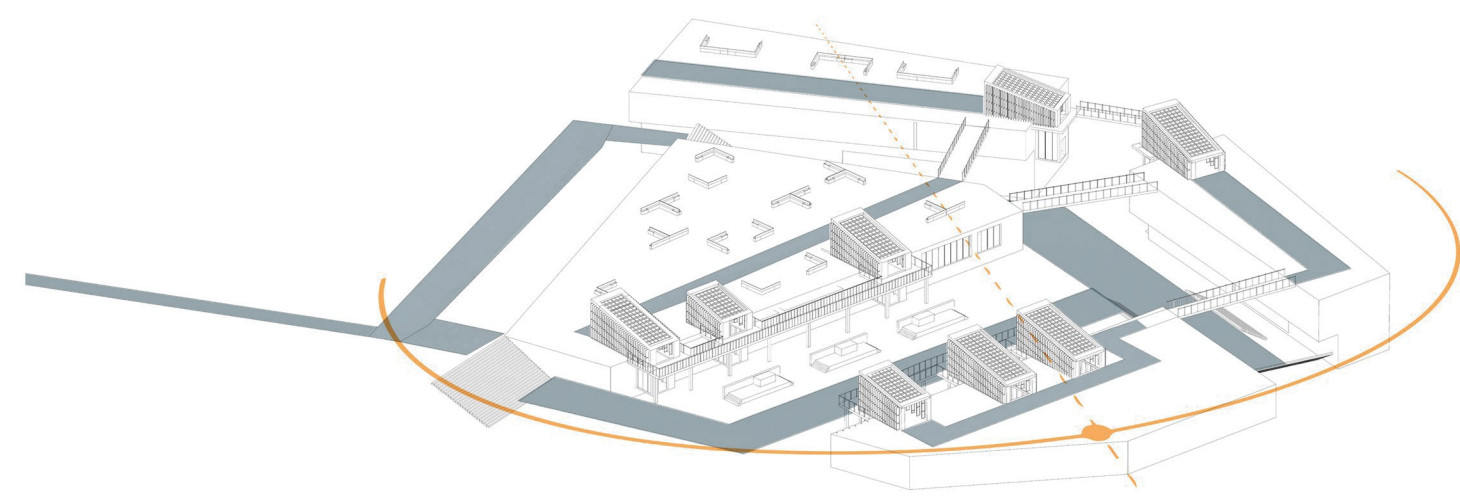


Luminophore Energy Collection

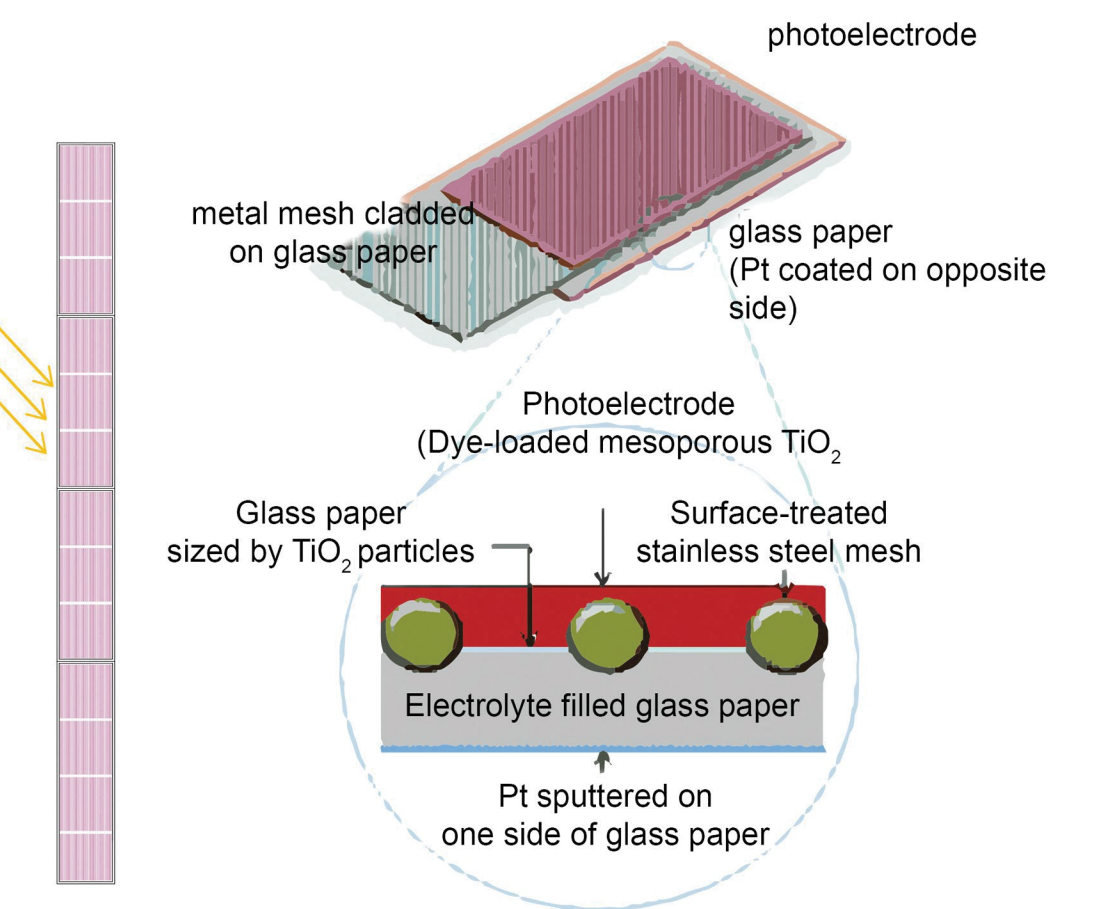
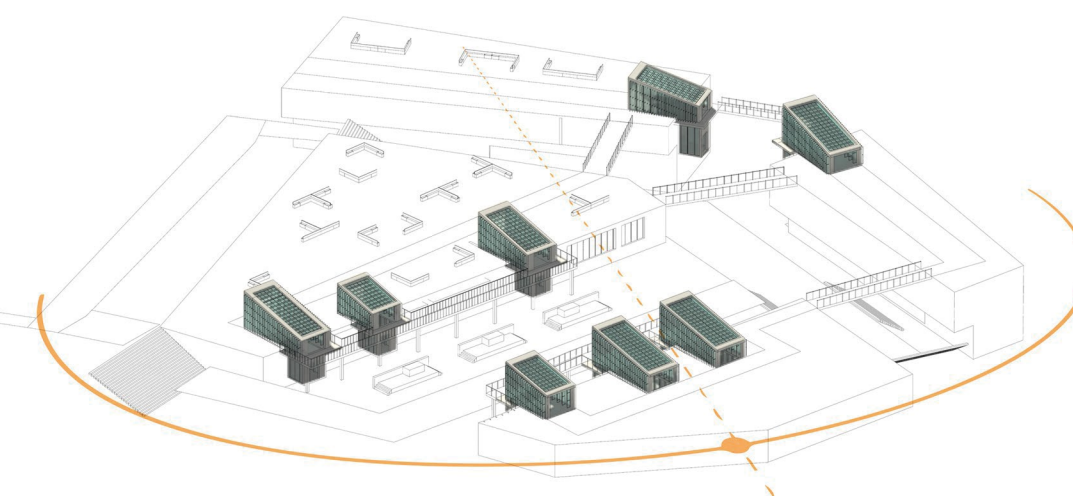


800 m length x 7.5 m width = **6,000 m²**

6,000 m² long footpath (including roof) x 10 Wh/day x 8 h minimum collection period = 480,000 W = **480 kWh/day**

480 kWh x 365 days/yr = 175,200 kWh/yr = **175.2 MWh/yr**

Dye-sensitized Solar Energy Collection



32-64 panels per solar facade = **52 panels avg**

52 panels x 242.37 m² x 265 Wh/panel x 8 h minimum collection period = 26,720,000 Wh/day = **26,720 kWh/day**

26,720 kWh x 365 days/yr = 9,753,000 kWh/yr = **9,753 MWh/yr**



Aerial Perspective

Once the day shifts to dusk, another solar collecting system activates. A network of paths create an internal hub that makes up LUMINA PLEX. Connections on the Esplanade and Jacka Boulevard also draw pedestrians in from the city and beach, especially at night. Translucent concrete is infused with a photochemical called luminophore, which absorbs light and releases it in the form of photons. This allows the sidewalks to transform into LED displays of varying imagery. There are opportunities for local artists to express their creativity through a unique platform. Paths are expected to produce enough electricity for these exhibits to last until sunrise, providing 24-hour access to the triangle.



Site Section (Esplanade to Beach)